

# RoHS Compliant



#### E197851

#### Features

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

#### Contact Data\*

Contact Arrangement		1A = SPST N.O.		
		1C = SPDT		
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		
		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		
N.C.		10A @ 120VAC, Resistive, 10K cycles, 85°C ambient		
		5A @ 240VAC, Resistive, 10K cycles, 85°C ambient		
		3A @ 30VDC, Resistive, 6K cycles, 40°C ambient		
		¼ hp @ 120/240/277VAC, 6K cycles, 40°C ambient		

Contact Resistance	< 50 milliohms initial		
Contact Material	AgSnO <sub>2</sub>		
Maximum Switching Power	2770VA		
Maximum Switching Voltage	277VAC		
Maximum Switching Current	10A		

### Coil Data\*

	oltage DC	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			
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	.20 or .45	10	10
12	15.6	720	320	9.00	1.2	.20 or .45 10	10	10
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			

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## General Data\*

Electrical Life @ rated load		100K cycles, average		
Mechanical Life		10M cycles, average		
Insulation Resistance		1000M Ω min. @ 500VDC, initial		
Dielectric Strength Coi	I to Contact	4000V rms min. @ sea level, initial		
Contac	t 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 +125°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.

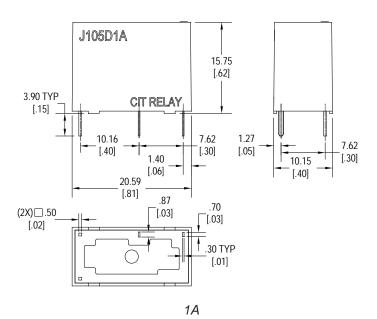
#### **Ordering Information**

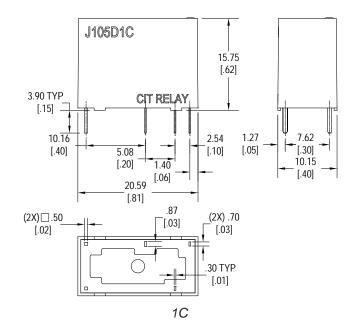
1. Series	J105D	1A	S	12VDC	.45
J105D					
2. Contact Arrangement 1A = SPST N.O. 1C = SPDT **only available with .45W coil power					
3. Sealing Option S = Sealed, Standard					
4. Coil Voltage 3VDC 5VDC 6VDC 9VDC 12VDC 18VDC 24VDC 48VDC **only available with .45W coil power					
5. Coil Power .20 = .20W .45 = .45W					



### Dimensions

Units = mm





# Schematics & PC Layouts

**Bottom Views** 

