CIT RELAY & SWITCH™
Division of Circuit Interruption Technology, Inc.

J105E

FEATURES:

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

c UL us **E197852**

RoHS Compliant

20.1 x 9.9 x 15.4 mm

CONTACT DATA

Contact Arrangement	1A = SPST N.O 1C = SPDT
Contact Rating	4.2A @ 277VAC; 5A @ 250VAC 10A @ 125VAC Resistive ¼ hp, 120/250/277VAC TV-5, 120VAC; Pilot Duty: C150
Contact Resistance	< 50 milliohms initial
Contact Material	$AgSnO_2$
Maximum Switching Power	150W, 1250VA
Maximum Switching Voltage	300VAC, 60VDC
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.	.45W					
3	3.9	20	2.25	0.3	.45	10	10
5	6.5	55	3.75	0.5			
6	7.8	80	4.50	0.6			
9	11.7	180	6.75	0.9			
12	15.6	320	9.00	1.2			
18	22.8	720	13.50	1.8			
24	31.2	1280	18.00	2.4			
48	62.4	5120	36.00	4.8			

CAUTION:

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.
2. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

GENERAL DATA

Electrical Life @ rated load Mechanical Life	100K cycles, typical 10M cycles, typical
Insulation Resistance	100MΩ min @ 500VDC
Dielectric Strength, Coil to Contact Contact to Contact	4000V rms min. @ sea level 1000V rms min. @ sea level
Shock Resistance	$100m/s^2$ for 11ms
Vibration Resistance	1.50mm double amplitude 10-40Hz
Terminal (Copper Alloy) Strength	10N
Operating Temperature Storage Temperature	-40°C to + 85°C -40°C to + 155°C
Solderability	260°C for 5s
Weight	7g

www.citrelay.com
phone – 763.535.2339 fax – 763.535.2194

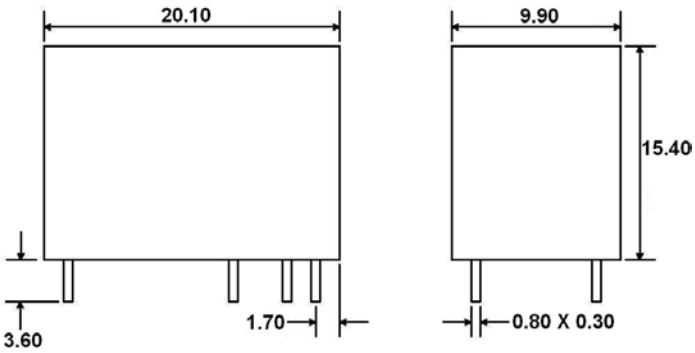
CIT RELAY & SWITCH™
Division of Circuit Interruption Technology, Inc.

J105E

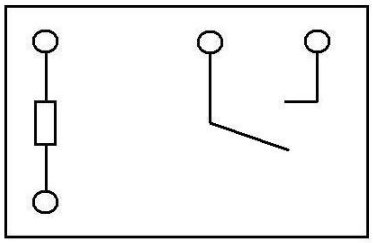
ORDERING INFORMATION

1. Series:	**J105E**	**1C**	**12VDC**	**.45**
J105E				
2. Contact Arrangement:				
1A = SPST N.O.				
1C = SPDT				
3. Coil Voltage:				
3VDC				
5VDC				
6VDC				
9VDC				
12VDC				
18VDC				
24VDC				
48VDC				
4. Coil Power:				
.45 = .45W				

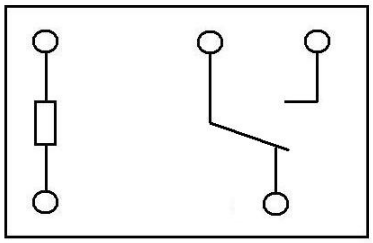
DIMENSIONS (Units = mm)



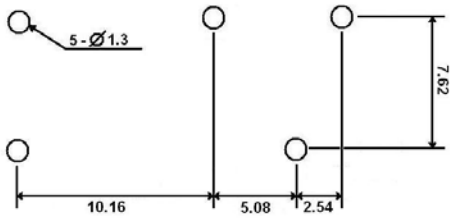
SCHEMATICS & PC LAYOUTS (BOTTOM VIEWS)



1A



1C



www.citrelay.com
phone – 763.535.2339 fax – 763.535.2194