WJ109F

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

FEATURES:

- UL F class rated standard
- Small size and light weight
- PC board mounting
- UL/CUL certified

E197851

22.3 x 17.3 x 14.5 mm

CONTACT DATA

Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT
Contact Rating	6A @ 300VAC & 28VDC 10A @ 125/240VAC & 28VDC 12A @ 125VAC & 28VDC, 1/3hp - 120/240 VAC
Contact Resistance	< 50 milliohms initial
Contact Material	AgCdO, $AgSnO_2$
Maximum Switching Power	336W
Maximum Switching Voltage	380VAC, 110VDC
Maximum Switching Current	20A

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.	.36W	.45W	.50W	.80W					
3	3.9	25	20	18	11	2.25	0.3	.36 .45 .50 .80	7	4
5	6.5	70	56	50	31	3.75	0.5			
6	7.8	100	80	72	45	4.50	0.6			
9	11.7	225	180	162	101	6.75	0.9			
12	15.6	400	320	288	180	9.00	1.2			
18	23.4	900	720	648	405	13.5	1.8			
24	31.2	1600	1280	1152	720	18.00	2.4			
48	62.4	6400	5120	4608	2880	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	2500V 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	-55 °C to + 125 °C -55 °C to + 155 °C
Solderability	230 °C ± 2 °C for 10 ± 0.5s
Weight	11g

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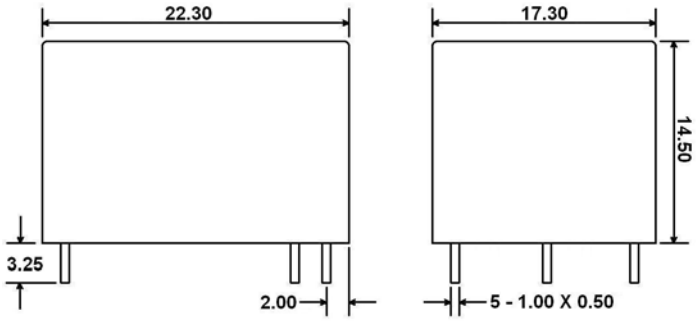
Distributor: Electro-Stock www.electrostock.com Tel: 630-682-1542 Fax: 630-682-1562

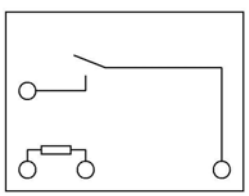
ORDERING INFORMATION

1. Series:	WJ109F	1C	S	6	24VDC	.45	
WJ109F							
2.Contact Arrangement:							
1A = SPST N.O.							
1B = SPST N.C.							
1C = SPDT							
3. Sealing Options:							
S = Sealed							
4. Contact Rating:							
6 = 6A							
10 = 10A							
12 = 12A							
5. Coil Voltage:							
3VDC							
5VDC							
6VDC							
9VDC							
12VDC							
18VDC							
24VDC							
48VDC							
6. Coil Power:							
.36 = .36W							
.45 = .45W							
.50 = .50W							
.80 = .80W							
7. Contact Material:							
Blank = AgCdO							
Z = $AgSnO_2$							

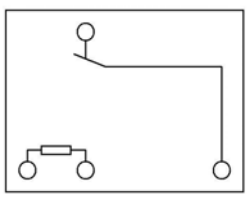
DIMENSIONS (Units = mm)



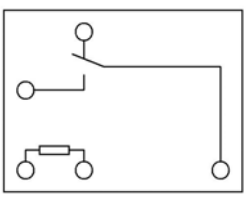
SCHEMATICS & PC LAYOUTS (BOTTOM VIEWS)



1A



1B



1C