



Features

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

Contact Data

Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT
Contact Rating 10A contact	6A @ 28VDC & 300VAC resistive 10A @ 28VDC & 125VAC gen purpose
12A contact	12A @ 28VDC & 125VAC gen purpose 1/3hp - 120/240VAC

Contact Resistance	< 50 milliohms initial
Contact Material	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					
5	6.5	70	56	50	31	3.75	.5	.36 .45 .50 .80	7	4
9	11.7	225	180	162	101	6.75	.9			
12	15.6	400	320	288	180	9.00	1.2			
24	31.2	1600	1280	1152	720	18.00	2.4			

General Data

Electrical Life @ rated load	100K cycles, typical
Mechanical Life	10M cycles, typical
Insulation Resistance	100M Ω 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 11 ms
Vibration Resistance	1.50mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	10N
Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +155°C
Solderability	260°C for 5 s
Weight	11g

Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

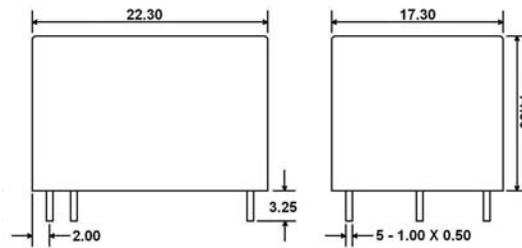
J109F

Ordering Information

1. Series	J109F	1C	S	10	24VDC	.45
J109F						
2. Contact Arrangement						
1A = SPST N.O.						
1B = SPST N.C.						
1C = SPDT						
3. Sealing Option						
S = Sealed						
4. Contact Rating						
10 = 10A						
12 = 12A						
5. Coil Voltage						
5VDC						
9VDC						
12VDC						
24VDC						
6. Coil Power						
.36 = .36W						
.45 = .45W						
.50 = .50W						
.80 = .80W						

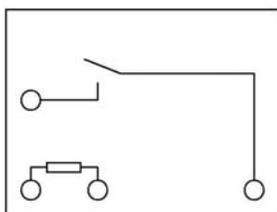
Dimensions

Units = mm

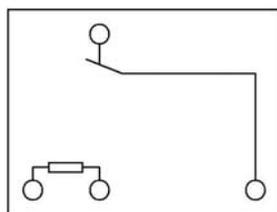


Schematics & PC Layouts

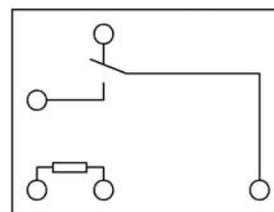
Bottom Views



1A



1B



1C

