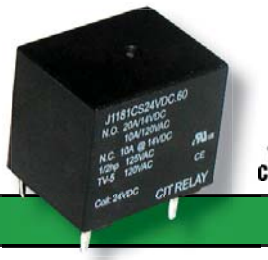


CIT RELAY & SWITCH™
Division of Circuit Interruption Technology, Inc.

J118

c UL us RoHS Compliant

E197852

15.5 x 12.2 x 13.8 mm

Features

- Low coil power consumption
- Small size and light weight
- PC board mounting
- Wide range of applications

Contact Data*

Contact Arrangement		1A = SPST N.O. 1B = SPST N.C. 1C = SPDT
Contact Rating	N.O.	10A @ 120VAC Resistive 20A @ 14VDC Resistive
	N.C.	10A @ 14VDC Resistive 1/2hp - 125VAC; TV-5, 120VAC

Contact Resistance	< 50 milliohms initial
Contact Material	$AgSnO_2$
Maximum Switching Power	280W, 1200VA
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	.6W	.8W					
9	11.7	135	102	6.75	.9	.60 .80	10	5
12	15.6	240	180	9.00	1.2			
24	31.2	960	720	18.00	2.4			

General Data*

Electrical Life @ rated load	100K cycles, average
Mechanical Life	10M cycles, average
Insulation Resistance	100M Ω min. @ 500VDC initial
Dielectric Strength, Coil to Contact	500V rms min. @ sea level initial
Contact to Contact	500V rms min. @ sea level initial
Shock Resistance	$100m/s^2$ for 11 ms
Vibration Resistance	1.50mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	10N
Operating Temperature	-40ºC to +85ºC
Storage Temperature	-40ºC to +155ºC
Solderability	260ºC for 5 s
Weight	6g

* *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 shown in mm. Dimensions are shown for reference purposes only.

Specifications and availability subject to change without notice.

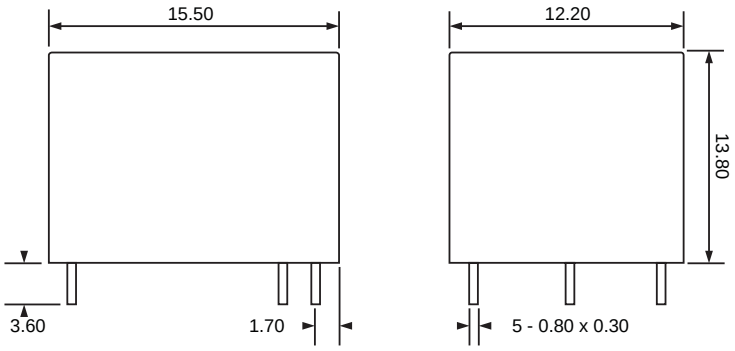
J118

Ordering Information

1. Series	J118	1C	S	12VDC	.60
J118					
2. Contact Arrangement 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT					
3. Sealing Option S = Sealed					
4. Coil Voltage 9VDC 12VDC 24VDC					
5. Coil Power .60 = .60W .80 = .80W					

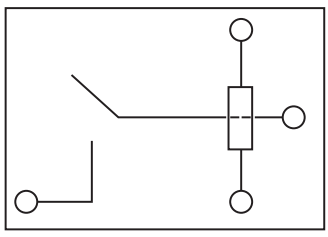
Dimensions

Units = mm

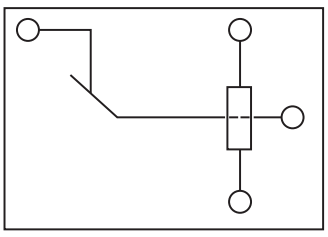


Schematics & PC Layouts

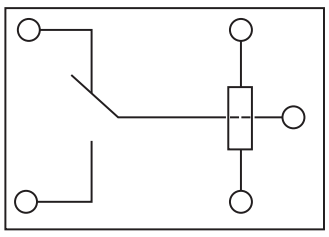
Bottom Views



1A



1B



1C