



Features

- 50A economical version
- Small size and light weight, low coil power consumption
- Heavy contact load, strong shock and vibration resistance

Contact Data*

Contact Rating	N.O.	50A @ 240VAC Resistive, 10K cycles 40°C
	N.C.	35A @ 240VAC Resistive, 10K cycles 40°C
Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT	

Contact Resistance	< 30 milliohms initial
Contact Material	AgSnO ₂ , AgSnO ₂ In ₂ O ₃
Maximum Switching Power	1200W, 12000VA
Maximum Switching Voltage	277VAC, 110VDC
Maximum Switching Current	50A

Coil Data DC Parameters*

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						
		1.5W					
5	6.5	16.7	3.75	.5	1.5W	15	10
9	11.7	54	6.75	.9			
12	15.6	96	9.00	1.2			
24	31.2	384	18.00	2.4			
48	62.4	1536	36.00	4.8			
110	140.3	8067	82.50	11.0			

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	4000V rms min. @ sea level initial(H = high dielectric strength option) 2500V rms min. @ sea level initial
	Contact to Contact	1500V rms min. @ sea level initial
Shock Resistance	200m/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 F Class	
Storage Temperature	-55°C to +155°C F Class	
Solderability	260°C for 5 s	
Weight	J115F1 30g, 27g no cover; J115F2 35g; J115F3 37g	

* 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.

J115F 50amp

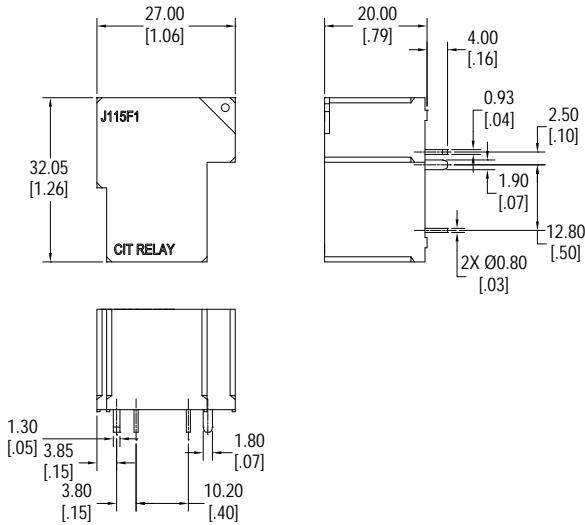
Ordering Information

1. Series	J115F3	1A	H		12VDC	S		1.5	
J115F1 (PC terminals only) J115F2 (PC and quick connect terminals) J115F3 (quick connect terminals only)									
2. Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT								
3. Contact Rating	H = 50A								
4. Profile	Blank = Standard Profile N = No Cover L = Low Profile *J115F2 & J115F3 styles only								
5. Coil Voltage	5VDC 9VDC 12VDC 24VDC 48VDC 110VDC								
6. Sealing Option	S = Sealed standard N = No cover, non-sealed								
7. High Dielectric Strength Option	6 = Standard dielectric strength H = High dielectric strength *J115F1 style only								
8. Coil Power	1.5 = 1.5W								
9. Contact Material	Blank = AgSnO ₂ U = AgSnO ₂ In ₂ O ₃								

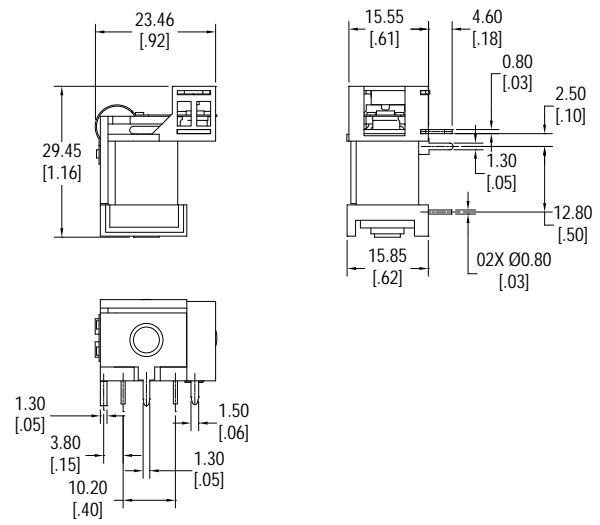
J115F 50amp

Dimensions - J115F1

Units = mm



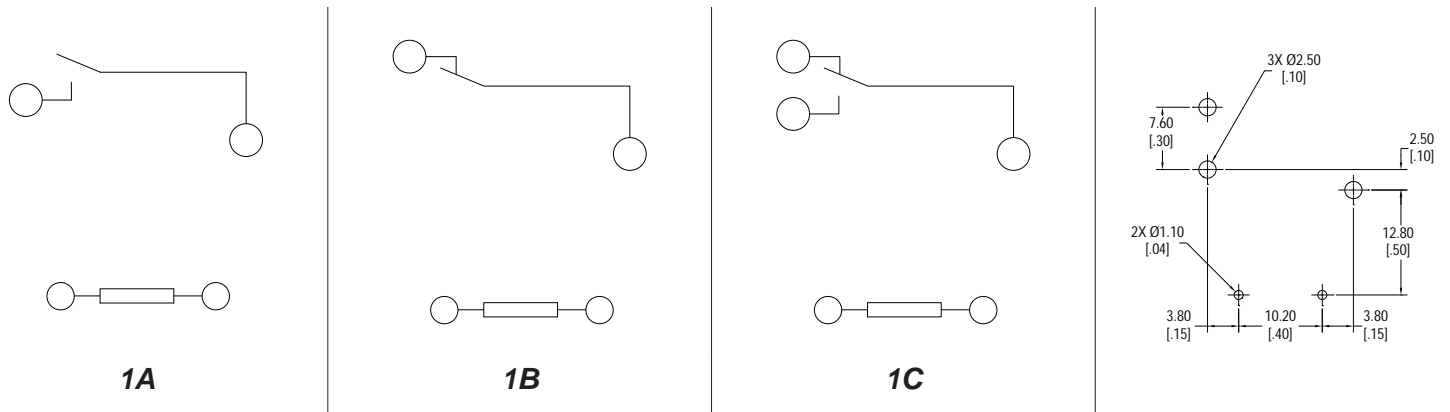
Standard Profile



N = No Cover

Schematics & PC Layouts - J115F1

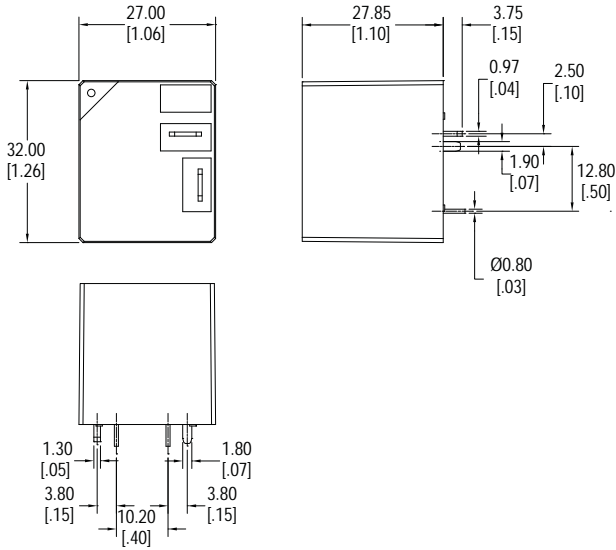
Bottom View



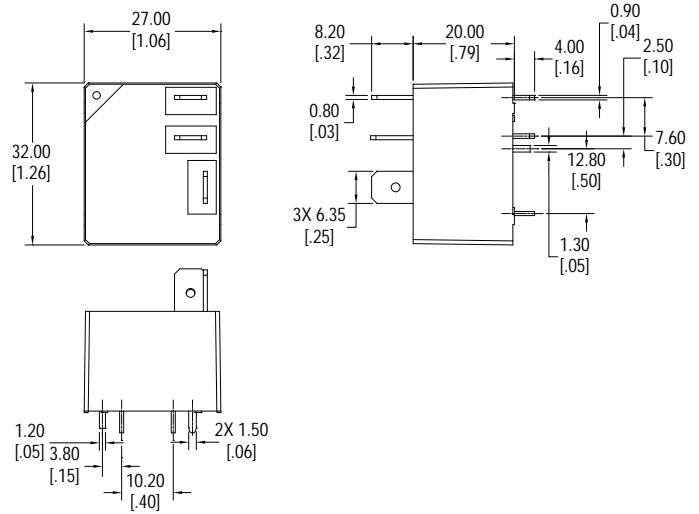
J115F 50amp

Dimensions - J115F2

Units = mm



Standard Profile

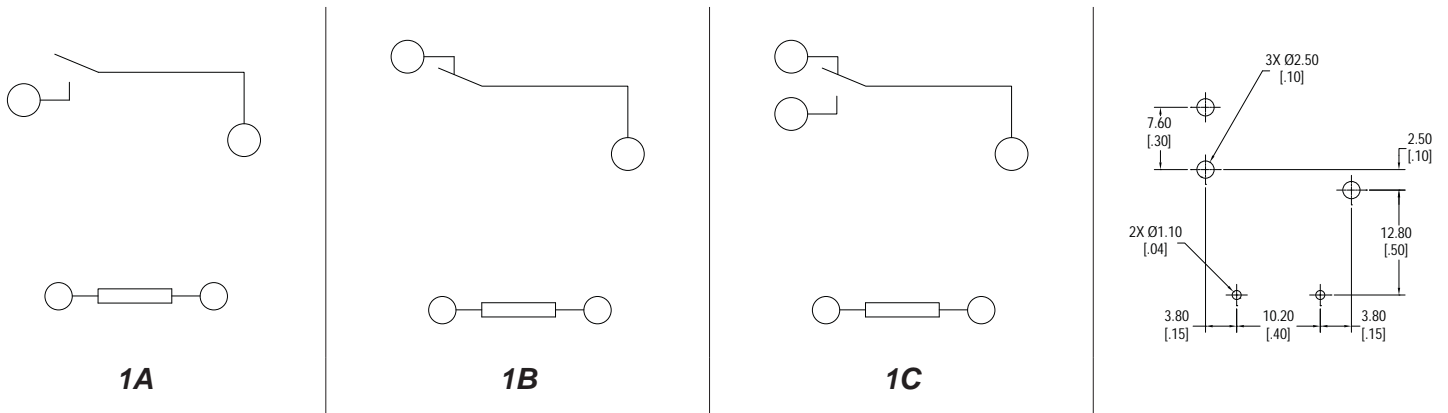


N = No Cover

**** Quick Connect Terminals :**
Contacts - 6.35 x .81mm (.250" x .032")

Schematics & PC Layouts - J115F2

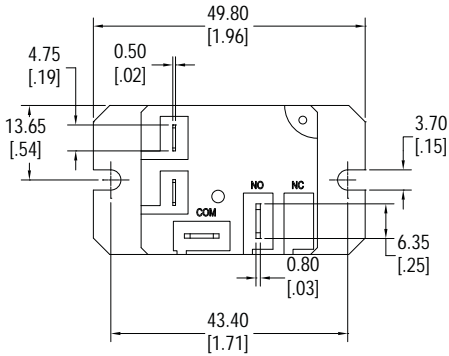
Bottom View



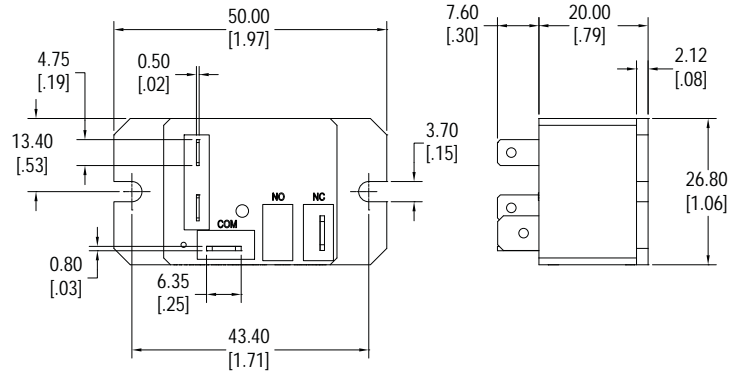
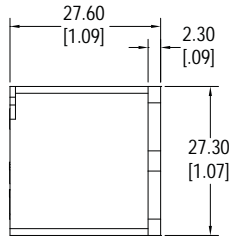
J115F 50amp

Dimensions - J115F3

Units = mm



Standard Profile



L = Low Profile

Standard Profile

** Quick Connect Terminals :

Contacts - 6.35 x .81mm (.250" x .032")

Coil - 4.75 x .50mm (.187" x .020")

L = Low Profile

** Quick Connect Terminals :

Contacts - 6.35 x .81mm (.250" x .032")

Coil - 4.75 x .50mm (.187" x .020")

Schematics & Panel Mount Layouts - J115F3

Top View

