





E197851

19.0 x 15.5 x 15.3 mm

#### **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 Resistance	< 50 milliohms initial		
Contact Material	AgSnO <sub>2</sub>		
Maximum Switching Power	2500VA, 420W		
Maximum Switching Voltage	380VAC, 110VDC		
Maximum Switching Current	20A		

UL Contact Ratings				
20A Contact	t 20A @ 16VDC / 125VAC gp			
	10A @ 250VAC general purpose			
	1/3hp @ 125VAC / 277VAC			
20A Contact N.O.	10A @ 250VAC 85C, 100K cycles general purpose			
15A Contact	15A @ 125VAC general purpose			
	6A @ 277VAC general purpose			
15A Contact N.O.	15A @ 125VAC resistive, 30K cycles			
	4FLA, 40LRA @ 24VDC DC motor, 1000 cycles			
12A Contact	12A @ 125VAC general purpose			
	12A @ 28VDC general purpose			

TÜV Contact Ratings – .36W coil power only				
N.O.	6A @ 250VAC			
	6A @ 250VAC 6A @ 28VDC 6A @ 250VAC 6A @ 28VDC			
N.C.	6A @ 250VAC			
	6A @ 28VDC			

#### Coil Data\*

	oltage DC	ge 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	.80W	voltage	voltage			
3	3.9	25	20	11	2.25	.3			
5	6.5	70	56	31	3.75	.5			
9	11.7	225	180	101	6.75	.9	.36	10	E
12	15.6	400	320	180	9.00	1.2	.45 .80	10	5
24	31.2	1600	1280	720	18.00	2.4			
48	62.4	6400	5120	2880	36.00	4.8			



#### **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	1500V rms min. @ sea level initial		
Contact to Contact	750V rms min. @ sea level initial		
Shock Resistance	100m/s <sup>2</sup> for 11 ms		
Vibration Resistance	1.50mm double amplitude 10~40Hz		
Operating Temperature	-55°C to +125°C		
Storage Temperature	-55°C to +155°C		
Solderability	260°C for 5 s		
Weight	9.5g		

<sup>\*</sup> Values can change due to the switching frequency, desired re-liability 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.

## **Ordering Information**

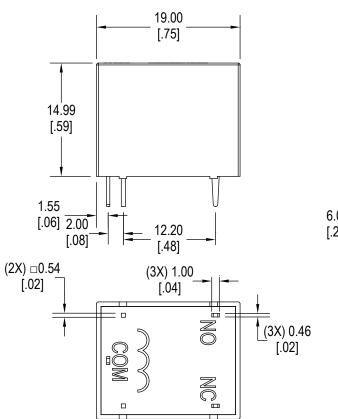
1. Series	J107F	1C	S	12	12VDC	.36
J107F						
2. Contact Arrangemer 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT	nt					
3. Sealing Option S = Sealed						
4. Contact Rating 12 = 12A 15 = 15A 20 = 20A (20Amp av	ailable in .45 or .8	0 watt coil only)				
5. Coil Voltage 3VDC 5VDC 9VDC 12VDC 24VDC 48VDC						
6. Coil Power .36 = .36W .45 = .45W .80 = .80W						

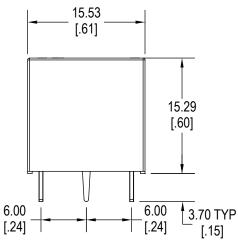
Specifications and availability subject to change without notice.



### **Dimensions**

Units = mm





# Schematics & PC Layouts

**Bottom Views** 

