

RoHS Compliant



E197852

31.7 x 26.9 x 20.3 mm

## Features

- UL F class rated standard
- Small size and light weight, low coil power consumption
- Heavy contact load, strong shock and vibration resistance
- UL/CUL, TÜV certified

## Contact Data

UL Contact Rating	N.O.	5A @ 280VAC Ballast 5A @ 280VAC General Purpose 20A @ 240VAC Resistive, 250k cycles, 40C 25A @ 277VAC, Resistive 100k cycles, 40C 40A @ 240VAC Resistive, 40C 30A @ 277VAC General Purpose 2hp @ 250VAC, 40C
	N.C.	5A @ 280VAC Ballast 5A @ 280VAC General Purpose 30A @ 240VAC Resistive, 40C 30A @ 30VDC, 40C 20A @ 277VAC General Purpose 1-1/2hp @ 250VAC

TÜV Contact Rating	N.O.	40A @ 240VAC; 14VDC 30A @ 277VAC
	N.C.	30A @ 240VAC; 14VDC 20A @ 277VAC

Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT
Contact Resistance	< 30 milliohms initial
Contact Material	AgSnO <sub>2</sub> AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>
Maximum Switching Power	9600VA, 1120 W
Maximum Switching Voltage	277VAC, 110VDC
Maximum Switching Current	40A

## Coil Data DC Parameters

Coil Voltage VDC		Coil Resistance Ω +/- 10%		Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	.6W	.9W	75% of rated voltage	10% of rated voltage			
5	6.5	42	28	3.75	.5	.60 .90	15	10
9	11.7	135	90	6.75	.9			
12	15.6	240	160	9.00	1.2			
24	31.2	960	640	18.00	2.4			
48	62.4	3840	2560	36.00	4.8			
110	140.3	20167	13445	82.50	11.0			

## Coil Data AC Parameters

Coil Voltage VAC		Coil Resistance Ω +/- 10%		Pick Up Voltage VAC (max)	Release Voltage VAC (min)	Coil Power VA	Operate Time ms	Release Time ms
Rated	Max			75% of rated voltage	30% of rated voltage			
12	15.6		27	9.00	3.6	2VA	15	10
24	31.2		120	18.00	7.2			
110	143		2360	82.50	33.0			
120	156		3040	90.00	36.0			
220	286		13490	165.00	66.0			
240	312		15320	180.00	72.0			
277	360		20210	207.00	83.1			

# J115F1

## General Data

Electrical Life @ rated load	100K cycles, typical
Mechanical Life	10M cycles, typical
Insulation Resistance	1000M Ω min. @ 500VDC
Dielectric Strength	Coil to Contact
	Contact to Contact
	4000V rms min. @ sea level (H = high dielectric strength option) 2500V rms min. @ sea level (with Pin 6 removed) 1500V rms min. @ sea level
Shock Resistance	200m/s <sup>2</sup> 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	30g, 27g (no cover)

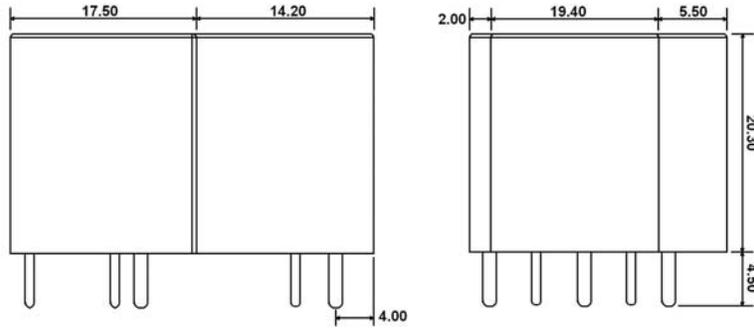
## Ordering Information

1. Series	J115F1	1C	12VDC	S	6	.6
J115F1						
2. Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT					
3. Coil Voltage	5VDC      12VAC 9VDC      24VAC 12VDC     110VAC 24VDC     120VAC 48VDC     220VAC 110VDC    240VAC 277VAC					
4. Sealing Options	S = Sealed (standard) N = No cover					
5. Option	None = Pin 6 included **not available with AC coils 6 = Pin 6 removed H = Pin 6 removed & high dielectric strength resistant **not available with AC coils					
6. Coil Power	.9 = .9W .6 = .6W Blank = 2VA (AC Coil)					
7. Contact Material	Blank = AgSnO <sub>2</sub> U = AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>					

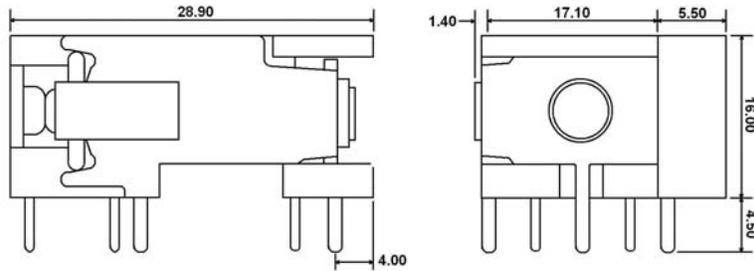
# J115F1

## Dimensions

Units = mm



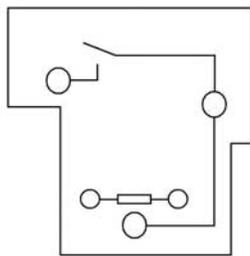
**S = Sealed**



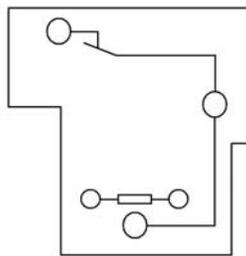
**N = No Cover**

## Schematics & PC Layouts

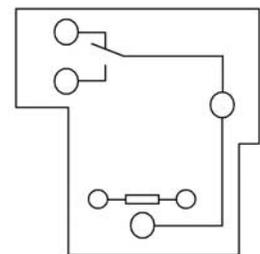
Bottom Views



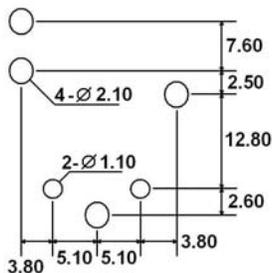
**1A**



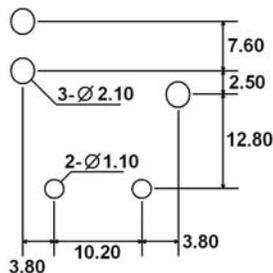
**1B**



**1C**



**With Pin 6**



**Without Pin 6**