





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
TÜV Contact Rating N.O.  N.C.	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> ln <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

	oltage OC	Coil Resistance Ω +/- 10%		Pick Up Voltage   Release Voltage   VDC (max)   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				
9	11.7	135	90	6.75	.9				
12	15.6	240	160	9.00	1.2	.60	45	10	
24	31.2	960	640	18.00	2.4	.90 15		10	
48	62.4	3840	2560	36.00	4.8				
110	140.3	20167	13445	82.50	11.0				

#### Coil Data AC Parameters

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



### 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	4000V rms min. @ sea level (H = high dielectric strength option)			
	2500V rms min. @ sea level (with Pin 6 removed)			
Contact to Contact	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)			

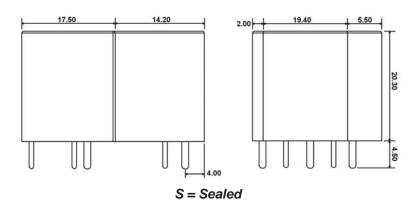
# **Ordering Information**

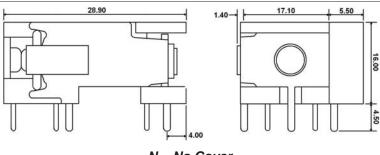
1. Series	J115F1	1C	12VDC	S	6	.6	
J115F1							
2. Contact Arrangement 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT							
3. Coil Voltage  5VDC 12VAC  9VDC 24VAC  12VDC 110VAC  24VDC 120VAC  48VDC 220VAC  110VDC							
4. Sealing Options S = Sealed (standard) N = No cover							
5. Option  None = Pin 6 included  6 = Pin 6 removed  H = Pin 6 removed & high dielectric stre	ength resistant						
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>							



## **Dimensions**

Units = mm

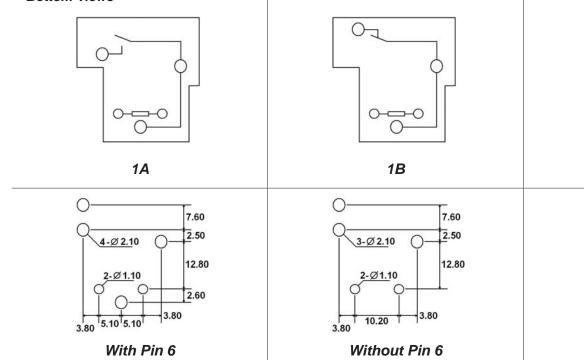




N = No Cover

## Schematics & PC Layouts

**Bottom Views** 



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