

J115F1 50amp

31.7 x 26.9 x 20.3 mm

Features

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



UL
E197852



Contact Data*

UL Contact Rating	N.O.	50A @ 240VAC Resistive, 10K cycles 40°C
	N.C.	35A @ 240VAC Resistive, 10K cycles 40°C
TÜV Contact Rating	N.O.	50A @ 240VAC Resistive, 10K cycles 85°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)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	.9W	1.5W	75% of rated voltage	10% of rated voltage			
5	6.5	28	16.7	3.75	.5	.9W 1.5W	15	10
9	11.7	90	54	6.75	.9			
12	15.6	160	96	9.00	1.2			
24	31.2	640	384	18.00	2.4			
48	62.4	2560	1536	36.00	4.8			

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	2.7VA		75% of rated voltage	30% of rated voltage			
24	31.2	96		18.0	7.2	2.7VA	15	10
120	156	2320		90.0	36.0			
220	286	9500		165.0	66.0			
240	312	11600		180.0	72.0			
277	360	15600		207.0	83.1			

J115F1 50amp

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	30g, 27g no cover

* 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.

J115F1 50amp

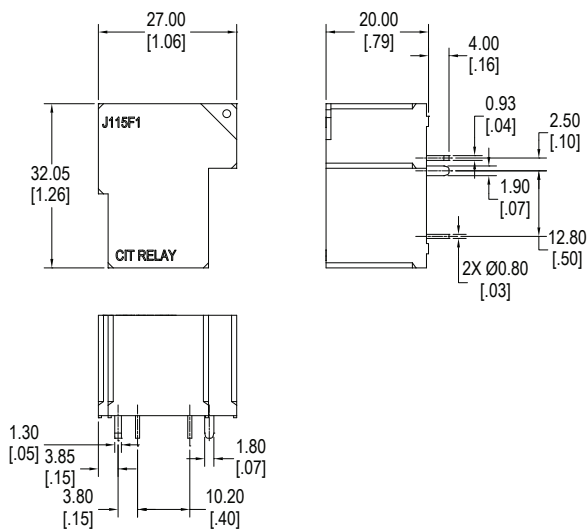
Ordering Information

1. Series	J115F1	1A	H		12VDC	S		1.5	
J115F1									
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									
5. Coil Voltage									
5VDC		24VAC							
9VDC		120VAC							
12VDC		220VAC							
24VDC		240VAC							
48VDC		277VAC							
6. Sealing Option									
S = Sealed standard, <i>not available with N Style Profile</i>									
N = No cover, non-sealed									
7. Dielectric Strength									
6 = Standard dielectric strength									
H = High dielectric strength									
8. Coil Power									
.9 = .9W									
1.5 = 1.5W									
Blank = 2.7VA (AC coil)									
9. Contact Material									
Blank = AgSnO ₂									
U = AgSnO ₂ In ₂ O ₃									

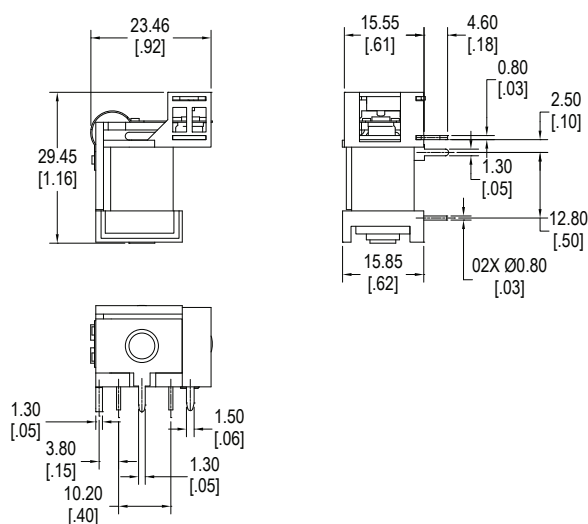
CIT[®] Relay & Switch **J115F1 50amp**

Dimensions

Units = mm



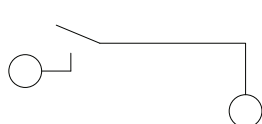
Standard Profile



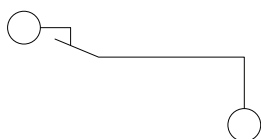
N = No Cover

Schematics & PC Layouts

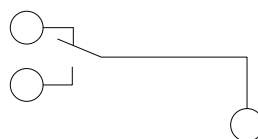
Bottom View



1A



1B



1C

